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DATE MAILED: 04/01/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/016,038	11/16/2001	Kazuyuki Okita	01757/LH	5926
	590 04/01/2003			
FRISHAUF, HOLTZ, GOODMAN, LANGER & CHICK, P.C.			EXAMINER	
25th Floor	men, r.e.		ROJAS, BERNARD	
767 Third Aven				
New York, NY	10017		ART UNIT PAPER NUMBE	
			2832	

Please find below and/or attached an Office communication concerning this application or proceeding.

4	Application No.	Applicant(s)	1			
*	10/016,038	OKITA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Bernard Rojas	J				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	2832 correspondence ad	dress			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we. - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	'IS SET TO EXPIRE 3 MONT 6(a). In no event, however, may a reply be within the statutory minimum of thirty (30) of ill apply and will expire SIX (6) MONTHS fro	H(S) FROM timely filed lays will be considered timely the mailing date of this co				
1) Responsive to communication(s) filed on	~ ·					
	s action is non-final.					
3) Since this application is in condition for allowar closed in accordance with the practice under E Disposition of Claims	nce except for formal matters, parte Quayle, 1935 C.D. 11,	prosecution as to the 453 O.G. 213.	e merits is			
4) Claim(s) <u>1-6</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1 and 3-6</u> is/are rejected.						
7)⊠ Claim(s) <u>2</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or a Application Papers	election requirement.					
9)☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepte	ed or b) objected to by the Exa	miner.				
Applicant may not request that any objection to the o	drawing(s) be held in abevance. S	See 37 CFR 1 85(a)				
11)∐ The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply	to this Office action.					
12)☐ The oath or declaration is objected to by the Exan	niner.					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign p	riority under 35 U.S.C. § 119(a	ı)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ⊠ None of:						
1. Certified copies of the priority documents h	ave been received.					
2. Certified copies of the priority documents h	ave been received in Applicati	on No				
3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list of	111 (PCT RUIA 1 / 2/a))		age			
14) Acknowledgment is made of a claim for domestic p	riority under 35 U.S.C. § 119(e	e) (to a provisional a	oplication)			
 a) ☐ The translation of the foreign language provis 15) ☐ Acknowledgment is made of a claim for domestic p 	ional application has been rec	aivad	ppoutiony.			
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2.	4) Interview Summary 5) Notice of Informal F 6) Other:	(PTO-413) Paper No(s). atent Application (PTO-1	· 52)			

1) 2) 3)

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DETAILED ACTION

Priority

Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Japan on November 20th, 2000. It is noted, however, that applicant has not filed a certified copy of the 352454/2000 application as required by 35 U.S.C. 119(b).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 3-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over applicants disclosure.

Prior art 1 disclosed by applicant teaches, a magnetic core [15] with at least one gap, an excitation coil [19] disposed on said core, permanent magnets [23] disposed near the gap. It fails to teach the use of soft magnetic material. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use a soft magnetic material piece to improve the strength/efficiency of the permanent magnet. It is known in the art that soft magnetic material efficiently conducts flux and losses less eddy current when compared to other magnetic material of the same size.

Regarding claim 3, the gap is formed of one U-shaped magnetic core [figure 1A].

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Regarding claim 6, applicant discloses the inductor components use as a choke coil.

Claims 4 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over applicants disclosure in view of Cuk.

Regarding claim 4, applicants disclosure discloses the instant invention with the exception of having a pair of coil forming a plurality of gaps.

Cuk teaches the use of a pair of C-shape cores to create a plurality of gaps [figure 9a].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the two teachings to create a more powerful choke coil.

Regarding claim 5, the gaps are formed on each abutting edge face of the C-shape cores [figure 9a].

Allowable Subject Matter

Claim 2 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: The prior art of record does not disclose or suggest a second layer of soft magnetic material.

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Conclusion

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The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Fukui et al. disclose the general state of the art in choke coils.

SUGAWARA discloses a common choke coil with a two core structure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bernard Rojas whose telephone number is (703) 305-3873. The examiner can normally be reached on M-F (7-4:30), every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin G. Enad can be reached on (703) 308-7619. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7724 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Br March 24, 2003

> **ELVIN ENAD** SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2800